



Sheet 1 of 4

U.S. Department of Commerce, Patent and Trademark Office	Serial No.: 10/010,786
	Filing Date: 11/09/2001
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Inventors: Novotny, et al.
"MICRO-ELECTRO-MECHANICAL VARIABLE OPTICAL ATTENUATOR"	Group Art Unit: 2874
	Examiner Name: Valencia, Daniel E.
	Attorney Docket No.: 13441-002001

U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, If Appropriate
<i>ADZ</i>	AA 6,301,403 B1	10/09/01	Heanue et al.	385	18	
<i>ADZ</i>	AB 6,253,001 B1	06/26/01	Storrs T. Hoen	385	17	
<i>ADZ</i>	AC 6,028,689	02/22/00	Michalick et al.	359	224	
<i>ADZ</i>	AD 5,872,880	02/16/99	Ronald S. Maynard	385	88	
<i>ADZ</i>	AE 6,283,601 B1	09/04/01	Hagelin et al.	359	871	

Foreign Patent Documents

	Document Number	Date	Country	Class	Subclass	Translation
						Yes No
AF						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>ADZ</i>	AG	"ROUTING PACKETS WITH LIGHT," Daniel J. Blumenthal. Scientific American, pages 96-99. January 2001.
<i>ADZ</i>	AH	"Construction and performance of a 576x576 single-stage OXC," Herzel Laor. LEOS, San Francisco, California, 3 pages. November 8, 1999.
<i>ADZ</i>	AI	"Application of micro- and nanotechnologies for the fabrication of optical devices," Wolfgang Ehrfeld and Hans-Dieter Bauer. SPIE Vol. 3276, page 2 and pages 4-14. (March 1998)
<i>ADZ</i>	AJ	"PERFORMANCE OF A 576x576 OPTICAL CROSS CONNECT," Laor, et al. NPOEC, Chicago, Illinois, pages 1-5. September 26, 1999.
<i>ADZ</i>	AK	"Control and shape design of an electrically-damped comb drive for digital switches," Yijian Chen. Proceedings of SPIE Vol. 4178, 2000, Pages 387-394.

Examiner *John D. Lee*

Date Considered **29 OCTOBER 2003**

*EXAMINER Initial or reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

RECEIVED
OCT 13 2003
TECHNICAL SERVICES



Sheet 2 of 4

U.S. Patent and Trademark Office	Serial No.: 10/010,786
	Filing Date: 11/09/2001
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Inventors: Novotny, et al.
"Micro-Electro-Mechanical Variable Optical Attenuator"	Group Art Unit: 2874
	Examiner Name: Valencia, Daniel E.
	Attorney Docket No.: 13441-002001

U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, if Appropriate
	AL					

Foreign Patent Documents

	Document Number	Date	Country	Class	Subclass	Yes	No
	AM						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ADL	AN	"THE RISE OF OPTICAL SWITCHING," David J. Bishop et al. Scientific American, pages 88-94. January 2001.
ADL	AO	"A LARGE-DEFLECTION ELECTROSTATIC ACTUATOR FOR OPTICAL SWITCHING APPLICATIONS," John D. Grade, Hal Jerman and Thomas W. Kenny. Presented at Hilton Head, 2000. 4 pages.
ADL	AP	"FLIP CHIP CHALLENGES," Steve Bezuk, Ph.D. General Manager, Applied Technology Development and Flip Chip Kyocera America, Inc. First published in HDI Magazine, February 2000. 6 pages.
ADL	AQ	"MEMS Feedback Control Using Through-Wafer Optical Device Monitoring," J.M. Dawson, et al. Proceedings of SPIE Vol. 4178, 2000. Pages 221-227.
ADL	AR	"A FLAT HIGH-FREQUENCY SCANNING MICROMIRROR," Robert A. Conant, et al. 2000 Solid-State Sensor & Act Workshop, Hilton Head, S.C., June 4-8, 2000. (4 pages)
ADL	AS	"The Surface/Bulk Micromachining (SBM) Process: A New Method for Fabricating Released MEMS in Single Crystal Silicon," Sangwoo Lee, et al. Journal of Microelectromechanical systems, Vol. 8, No. 4, December 1999. Pages 409-416.
ADL	AT	"MEMS actuators for silicon micro-optical elements," Norman C. Tien and Daniel T. McCormick. Proceedings of SPIE Vol. 4178, 2000. 256-267.

Examiner *John D. Lee*

Date Considered **29 OCTOBER 2003**

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

RECEIVED



Sheet 3 of 4

U.S. Department of Commerce, Patent and Trademark Office	Serial No.: 10/010,786
	Filing Date: 11/09/2001
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Inventors: Novotny, et al.
"Micro-Electro-Mechanical Variable Optical Attenuator"	Group Art Unit: 2874
	Examiner Name: Valencia, Daniel E.
	Attorney Docket No.: 13441-002001

U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, if Appropriate
<i>JDZ</i>	AU 5,724,123	03/03/98	Tanaka	356	5.01	
<i>JDZ</i>	AV 6,320,993B1	11/20/01	Lacr	385	16	
<i>JDZ</i>	AW 6,252,466 B1	06/26/01	J. Patrick Kawamura	331	25	
<i>JDZ</i>	AX 6,097,859	08/01/00	Solgaard et al.	385	17	

Foreign Patent Documents

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	AY						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JDZ</i>	AZ	"Lightweight, Optically Flat Micromirrors for Fast Beam Steering," Jocelyn T. Nee, et al. Presented at IEEE/LEOS optical MEMS 2000 Conference, August 21-4, 2000, Kauai, Hawaii, USA. 2 pages.
<i>JDZ</i>	BA	"Optical MEMS for Optical Communications - Trends and Developments," Veljko Milanovic. Adriatic Research Institute. Pages 2-6. Downloaded December 20, 2001.
<i>JDZ</i>	BB	"Silicon micromachines for lightwave networks: the little machines that will make it big," by David Bishop. December 2000. SPIE's Optics & Information Systems. 8 pages, vol. 11, No. 2.
<i>JDZ</i>	BC	Topical Review "The future of MEMS in telecommunications networks," James A. Walker. J. Micromech. Microeng. 10(2000)R1-R7. Printed in the UK.
<i>JDZ</i>	BD	D.J. Bishop Presentation, "Silicon Micromachines for Lightwave Networks: Can Little Machines Make it Big?" Lucent Technologies, Bell Labs Innovations. 83 pages. February, 1999.

Examiner

John D. Lee

Date Considered

29 OCTOBER 2003

*EXAMINER: Initial is reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

2003



Sheet 4 of 4

U.S. Department of Commerce, Patent and Trademark Office	Serial No.: 10/010,786
	Filing Date: 11/09/2001
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Inventors: Novotny, et al.
"Micro-Electro-Mechanical Variable Optical Attenuator"	Group Art Unit: 2874
	Examiner Name: Valencia, Daniel E.
	Attorney Docket No.: 13441-002001

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date, if Appropriate
JDT	BE	6,075,239	06/13/00	Aksyuk et al.	250	229	
JDT	BF	6,246,826 R1	06/12/01	O'Keefe et al.	385	140	
JDT	BG	6,173,105 R1	01/09/01	Aksyuk et al.	385	140	
	BH						

Foreign Patent Documents

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	BI							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BJ	"Fiber coupling (1 x 2 beam splitter)." Development Editor: Marleen Madon; Publisher: Ken Powers; Project Editor: Paul Gortehrer; and cover Design: Denise Craig. 1992 by CRC Press LLC. 4 pages.
JDT	BK	United States Patent Application Publication, "Latching Apparatus for a MEMS Optical Switch," by Zhang et al. Pub. No.: US 2002/0172452 A1, Pub. Date: November 21, 2002. Appl. No.: 09/860,300, filed May 18, 2001.
	BL	
	BM	
	BN	

Examiner

John D. Lee

Date Considered

29 OCTOBER 2003

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.